

## INTEGRATED READING AND WRITING OF A HOLOGRAM WITH A ROTATED REFERENCE BEAM POLARIZATION

### ABSTRACT OF THE DISCLOSURE

- 5 A method for monitoring diffraction while recording a hologram includes: generating  
a source beam; generating a data beam by projecting a first component of the source  
beam through a data source, the data beam having a first polarization; generating a  
reference beam by adjusting a polarization of a second component of the source beam  
to provide a second polarization; recording a hologram in a holographic medium from  
10 an interference between the data beam and the reference beam; and measuring an  
offset component in an output arm of the data beam.

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